INDEX TO PLAN SET

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SHEET 3 - GENERAL NOTES/ESTIMATE OF QUANTITIES

SHEET 3 - GENERAL NOTES/ESTIMATE
SHEET 4-9 - STREET PLAN LAYOUT

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SHEET 11 - STANDARD TRAFFIC CONTROL NOTES & DETAILS



CITY OF ABILENE, TEXAS PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION

FUNDING: 2015 BOND

FUNDING: 2015 BOND
ACTIVITY NUMBER: E2869
PROJECT DURATION: 40 WORKING DAYS

SPECIFICATIONS USED FOR THIS PROJECT ARE FROM THE

"CITY OF ABILENE STANDARD SPECIFICATIONS FOR CONSTRUCTION"

ADOPTED JANUARY 2001

All curb ramps and pertinent designs are in reasonable compliance with Texas Accessibility standards and the Americans with Disabilities Act.

OLD ANSON RD. OVERLAY PROJECT

AMBLER AVE. TO W. STAMFORD ST. PROJECT LENGTH 5,721'

COUNCIL

SHANE PRICE

WELDON HURT

BRUCE KREITLER

KYLE MCALISTER

DONNA ALBUS

STEVE SAVAGE

MAYOR

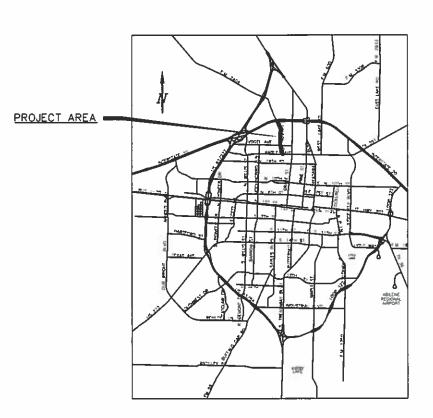
ANTHONY WILLIAMS

CITY MANAGER

ROBERT HANNA

DIRECTOR OF PUBLIC WORKS

MICHAEL G. RICE, P.E.



PROJECT LOCATION MAP

EROSION CONTROL REQUIREMENTS:

A determination has been made that this project/development is not subject to the requirements of the Texas Commission on Environmental Quality TPDES Construction General Permit TXR150000 as it will involve less than one acre of disturbed soil and is not part of a larger common plan of development equal to or greater than one acre. However, City of Abilene requirements for an erosion control plan and implementation of controls to prevent sediment introduction into the City's drainage way are still necessary. Questions concerning these requirements may be addressed to the City of Abilene's Engineering Division at 325.676.6281.

LARRY MARK WRIGHT

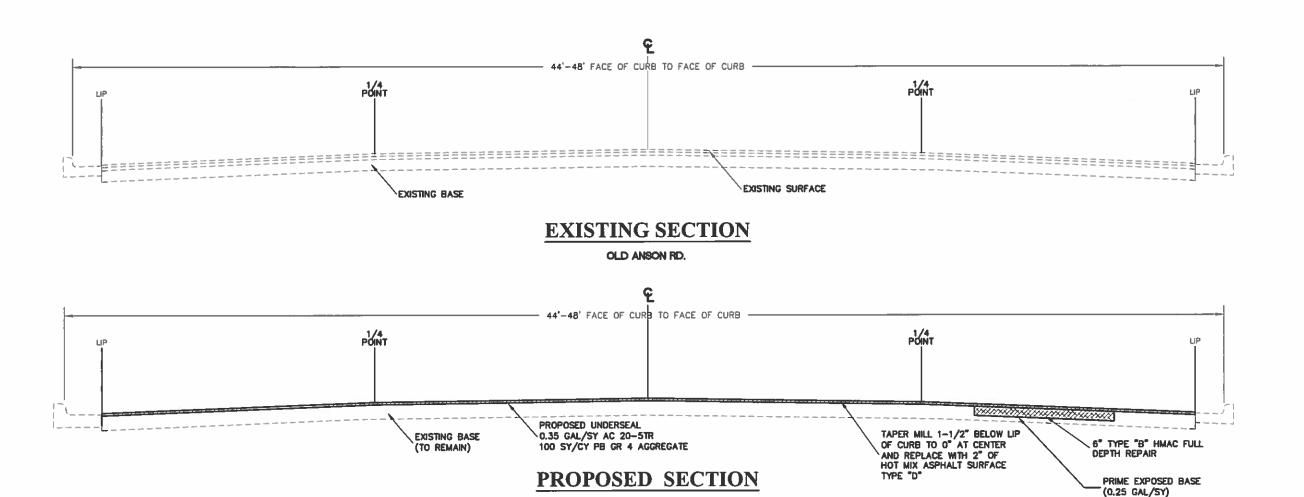
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CITY ENGINEER

LARRY M. WRIGHT, P.E.

SHEET 1 OF 11



OLD ANSON RD.

NOTES ON PROPOSED TYPICAL SECTION & WORK SEQUENCE FOR HMAC:

- 1. MILL EXISTING PAVEMENT.
- 2. REPAIR FAILED AREAS.
- 3. PLACE ONE COURSE SURFACE TREATMENT.
- 4. PLACE 2" TYPE "D" HMAC.

NOTES:

- CONTRACTOR WILL BE PAID FOR THE QUANTITIES OF HOT MIX ASPHALT CONCRETE COMPUTED ON THE BASIS OF DESIGN SHOWN ON THE PLANS. QUANTITIES IN EXCESS OF COMPUTED QUANTITIES AS A RESULT OF UNCONTROLLED MILLING WILL NOT BE INCLUDED FOR PAYMENT.
- HOT MIX MILLINGS GENERATED ON THIS PROJECT WILL BECOME PROPERTY OF THE CONTRACTOR.



Revision: Date: SHEET 2

SECTIONS

OLD ANSON RD. OVERLAY PROJECT STREET AND CURB & GUTTER CROSS

TEXAS

ABILENE, 's DEPT. DESIGN SERV

Nor Work

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GENERAL NOTES

- 1. ACCESS TO RESIDENCES AND BUSINESSES SHALL BE PROVIDED AT ALL TIMES.
- 2. THE CONTRACTOR SHALL APPOINT, IN WRITING, A SUPERINTENDENT FOR THIS PROJECT. THE SUPERINTENDENT SHALL BE AVAILABLE AT ALL TIMES.
- 3. CONTRACTOR MUST COORDINATE ONGOING CONSTRUCTION WITH OTHER CONSTRUCTION WITHIN THE LIMITS OF THE PROJECT AND ALTER HIS OPERATION AS NECESSARY.
- 4. ITEM 340 HOT MIX ASPHALT CONCRETE PAVEMENT. PROVIDE HOT MIX ASPHALT CONCRETE IN ACCORDANCE WITH CITY OF ABILENE STANDARD SPECIFICATIONS FOR CONSTRUCTION 2006. IF THE WEATHER CONDITIONS ARE FAVORABLE, THE CONTRACTOR MAY STOCKPILE HOT-MIX AND RE-HANDLE IT. CARE SHOULD BE EXERCISED, HOWEVER, TO PREVENT THE MIX FROM COOLING BELOW 270 DEGREES F.
- ASPHALT PAVEMENT WILL NOT BE PLACED IN STOCKPILES ON ANY OF THE NEWLY PLACED SURFACES. A STOCKPILE AREA INDEPENDENT OF THIS PROJECT WILL BE SELECTED.
- NO JOINTS WILL BE PERMITTED IN WHEEL PATHS. JOINTS GREATER THAN 1/4" WHEN CHECKED WITH A 4' STRAIGHT EDGE MUST BE REPLACED AT THE CONTRACTORS EXPENSE.
- 5. ITEM 354 PLANING AND/OR TEXTURING PAVEMENT (0"-3"). THIS ITEM SHALL GOVERN THE REMOVAL OF EXISTING PAVEMENT, MILLINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- 6. ITEM 500 MOBILIZATION. THIS ITEM SHALL GOVERN FOR THE ESTABLISHMENT OF OFFICE AND OTHER FACILITIES AT THE PROJECT SITE AND THE MOVEMENT OF PERSONNEL, CONSTRUCTION EQUIPMENT AND SUPPLIES TO THE PROJECT SITE OR TO THE VICINITY OF THE PROJECT SITE IN ORDER TO ENABLE THE CONTRACTOR TO BEGIN WORK ON THE OTHER CONTRACT ITEMS THAT WILL BE PERFORMED BY THE CONTRACTOR. THE COST OF THE PAYMENT BOND AND PERFORMANCE BOND ON PROJECTS THAT CANNOT BEGIN BECAUSE OF A CLOSED CONSTRUCTION SEASON OR FOR THE CONVENIENCE OF THE CITY WILL BE CONSIDERED PART OF THE MOBILIZATION ITEM UNDER THIS CONTRACT.
- 7. ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING. THIS PROJECT REQUIRES THE CONTRACTOR TO INSTALL CONSTRUCTION BARRICADES, SIGNS, AND TRAFFIC HANDLING ON THIS PROJECT. THERE MAY BE OTHER MINOR SIGNS AND/OR TRAFFIC MARKINGS THAT ARE DEEMED NECESSARY TO PROTECT THE TRAVELING PUBLIC AND CONSTRUCTION EMPLOYEES. PAYMENT FOR MISCELLANEOUS MINOR SIGNS WILL BE INCLUDED IN THE PRICE BID FOR ITEM 502. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE CURRENT TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
- 8. ITEM 529 CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER. THE PRICE BID FOR ITEM 529 WILL INCLUDE REMOVAL OF EXISTING CURB AND GUTTER, EXCAVATION TO GRADE UNDER EXISTING C&G AND 1'-0" BACK OF C&G, COMPACT SUBGRADE, PLACEMENT OF 3" BASE APPROVED BY THE ENGINEER, BACK-FILLING BEHIND THE CURB WITH ACCEPTABLE MATERIAL, PLACING 2 SACK CONCRETE, AND MATCH EXISTING SURFACE.
- 9. ITEM 637 ALUMINUM SIGN. THE CONTRACTOR SHALL PROVIDE SPECIFIED ALUMINUM SIGN AND POLE ASSEMBLY UNDER THIS ITEM, FINAL LOCATION OF SIGNS TO BE FIELD DETERMINED AND APPROVED BY THE TRAFFIC ENGINEER.
- 10. ITEM 810 RAISED PAVEMENT MARKERS. THE CONTRACTOR WILL BE REQUIRED TO TIE EACH END INTO AN EXISTING BUTTON PATTERN. BUTTON REMOVAL SHALL BE SUBSIDIARY TO ITEM 810, BUTTONS FABRICATED IN MEXICO WILL NOT BE PERMITTED. CROSSWALKS WILL BE 16" WHITE THERMOPLASTIC WITH LOCATION AND LAYOUT AS SHOWN ON PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR WORKING WITH THE INSPECTOR TO REPLACE PAVEMENT MARKINGS USING THE SUPPLIED TRAFFIC BUTTON LAYOUT SHEETS.
- 11. CONTRACTOR SHALL SUBMIT A SEQUENCE OF WORK PLAN AND A CONSTRUCTION SCHEDULE FOR APPROVAL AT THE PRE CONSTRUCTION CONFERENCE, UPDATED CONSTRUCTION SCHEDULES WILL BE REQUIRED MONTHLY PRIOR TO PROGRESS PAYMENTS.
- 12. CONTRACTOR SHALL CORE ROADWAY AFTER CONSTRUCTION IS COMPLETE AT A RATE OF 1 CORE PER 1000' OF ROADWAY. COST IS SUBSIDIARY TO BID ITEM FOR HMAC. SEE ALSO THE TESTING REQUIREMENTS.
- 13. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR THIS PROJECT.

810-2

810-3

810-4

810-5

* NOTES

- 1. A 10% FIGURE OF TOTAL ROADWAY AREA FOR OLD ANSON RD. IS USED FOR CALCULATION OF FULL DEPTH REPAIR WHICH INCLUDES: EXCAVATION AND 6" TYPE "B" HMAC. ONLY ACTUAL QUANTITIES UTILIZED ON THE PROJECT SHALL BE PAID FOR.
- 2. 1,500 GAL OF PRIME IS TO BE UTILIZED ANYWHERE (INCLUDING FULL DEPTH AREAS) THAT EXPOSED BASE MATERIAL IS PRESENT. ONLY ACTUAL QUANTITIES UTILIZED ON THE PROJECT SHALL BE PAID FOR

BASIS OF ESTIMATE					
ПЕМ	DESCRIPTION	RATE	AREA	QUANTITY	UNIT
316-1	SURFACE TREATMENT (ASPHALT)(AC-20-5TR)	0.35 GAL/SY	28,664.5	10,032.6	GAL
316-2	SURFACE TREATMENT (AGGREGATE)(TY-PB)(GR4)	100 SY/CY	28,664.5	286.6	CY
340-1	HOT MIX ASPHALT, TYPE "D" (2")	220#/Sq.Yd.	28,664.5	3,153.1	TON
340-2	HOT MIX ASPHALT, TYPE "B" (6")	660#/Sq.Yd.	2,866.5	946.0	TON

ESTIMATE OF QUANTITIES				
	DESCRIPTION		TOTALS	
		UNIT	ESTIMATED	FINAL
100	PREPARE R.O.W.	STA	57.21	
110	ROADWAY EXCAVATION	CY	477.8	
310	PRIME OIL (AEP)	GAL	1,500.0	
316-1	SURFACE TREATMENT (ASPHALT)(AC-20-5TR)	GAL	10,032.6	
316-2	SURFACE TREATMENT (AGGREGATE)(TY-PB)(GR4)	CY	286.6	
340-1	HOT MIX ASPHALT CONCRETE (TYPE D)(PG70-22)(2")	TON	3,153.1	
340-2	HOT MIX ASPHALT CONCRETE (TYPE B)(PG70-22)(6")	TON	946.0	
354	PLANING PAVEMENT	SY	28,664.5	
500	MOBILIZATION	LS	1.0	
502	BARRICADES, SIGNS, & TRAFFIC HANDLING	MO	2.0	
810-1	PAVEMENT MARKINGS	LS	1.0	

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3.0

2.0

2.0

4.0

PAVEMENT MARKINGS (THERMOPLASTIC CROSSWALK)

PAVEMENT MARKINGS (THERMOPLASTIC LEFT ARROW)

PAVEMENT MARKINGS (THERMOPLASTIC RIGHT ARROW)

PAVEMENT MARKINGS (THERMOPLASTIC ONLY)

ITEM #	TESTING REQUIREMENTS
310	TXDOT PREQUALIFIED SOURCE
316-1	TxDOT PREQUALIFIED SOURCE
316-2	TEX 200 F PART 1 GRADATION 1 PER 1000 CY=1
340	TEX 207 IN PLACE AIR VOIDS (MAY USE CALIBRATED GAUGE WITH ENGINEER'S APPROVAL) 2 PER 500 TON=16 TEX 236 ASPHALT CONTENT & GRADATION 1 PER 500 TON=8
	*CONTRACTOR SHALL PROVIDE 1-B CERTIFIED TECHNICIAN FOR ALL PAVING OPERATIONS
810	TxDOT PREQUALIFIED SOURCE



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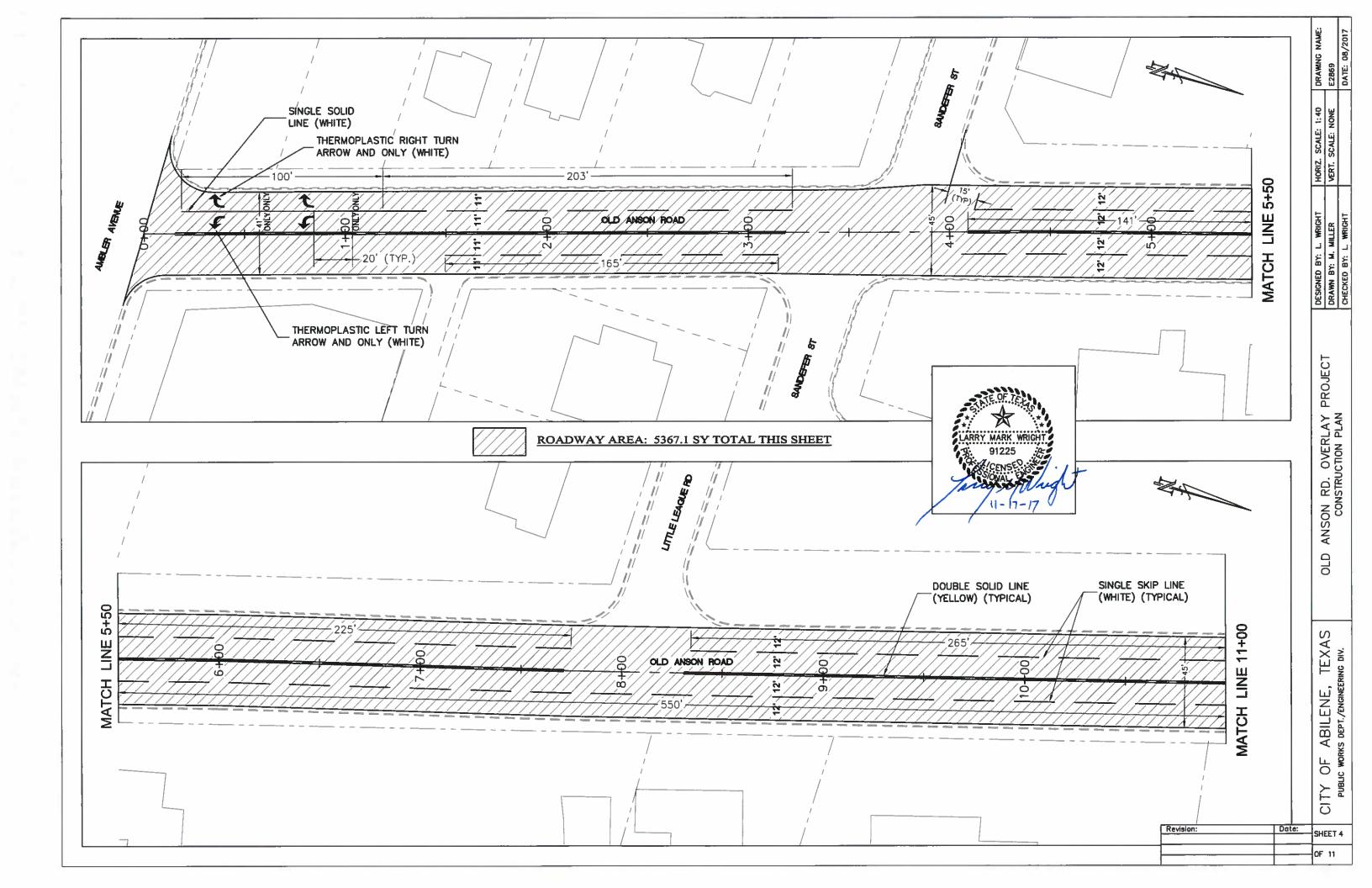
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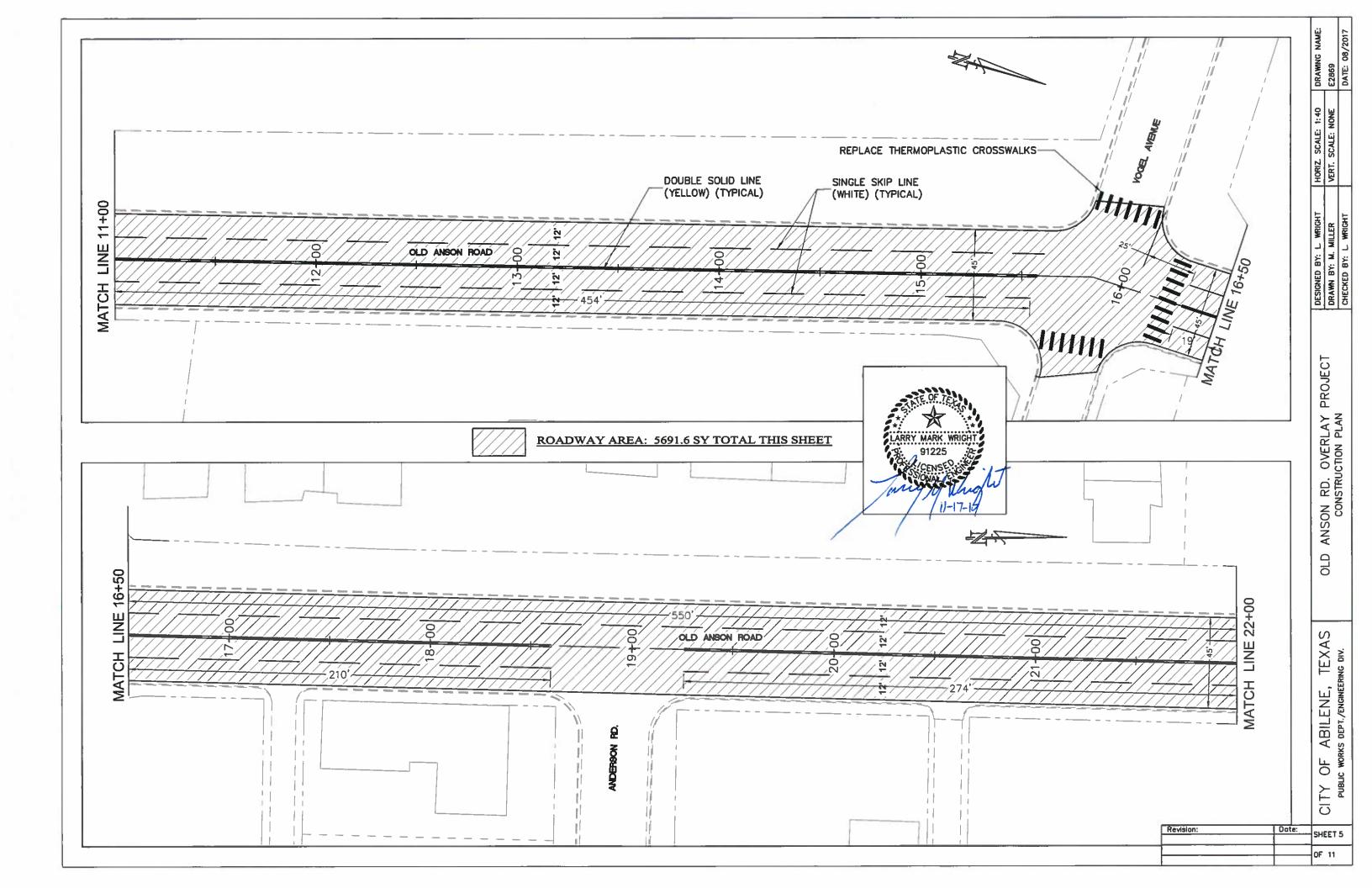
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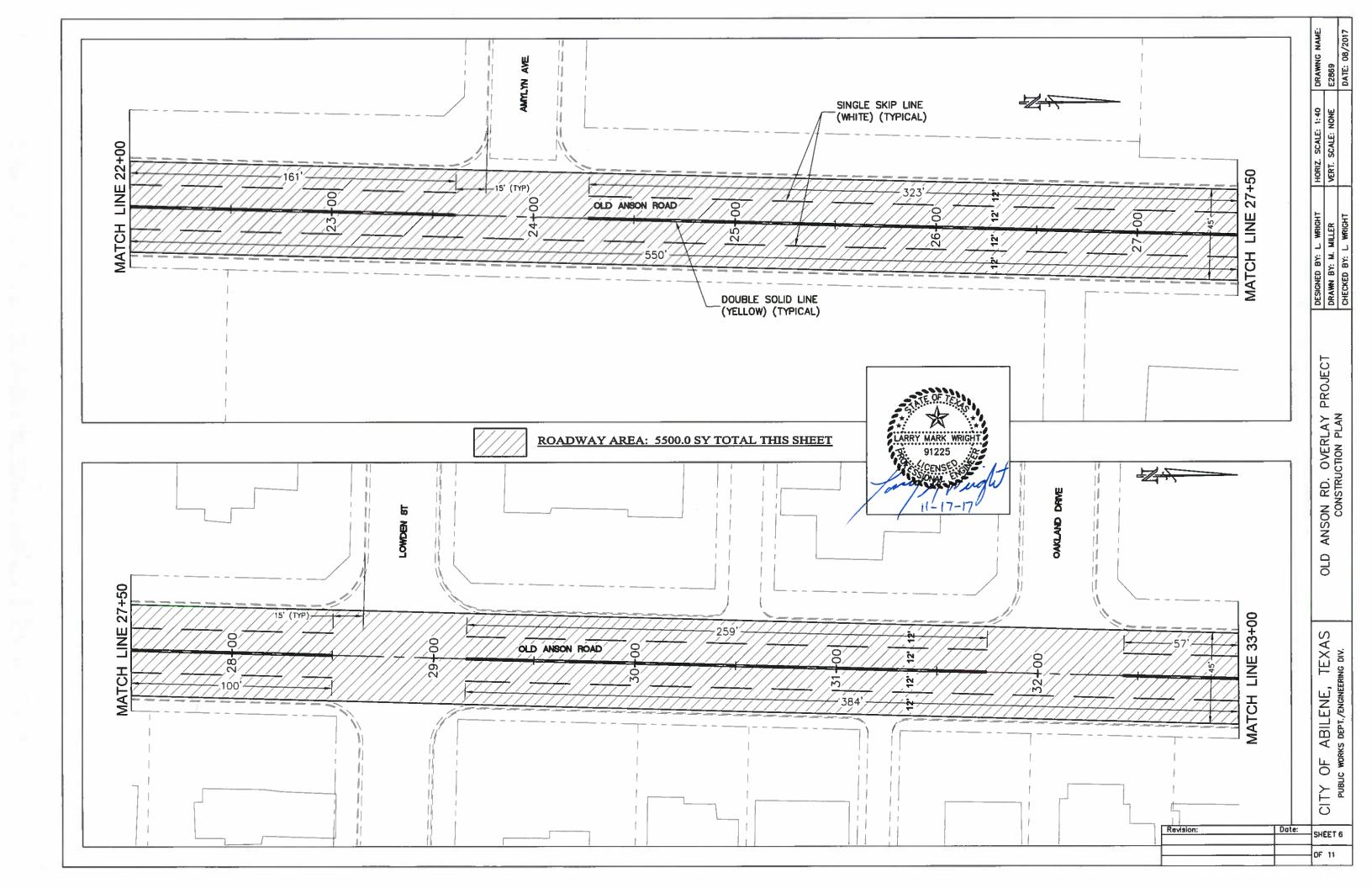
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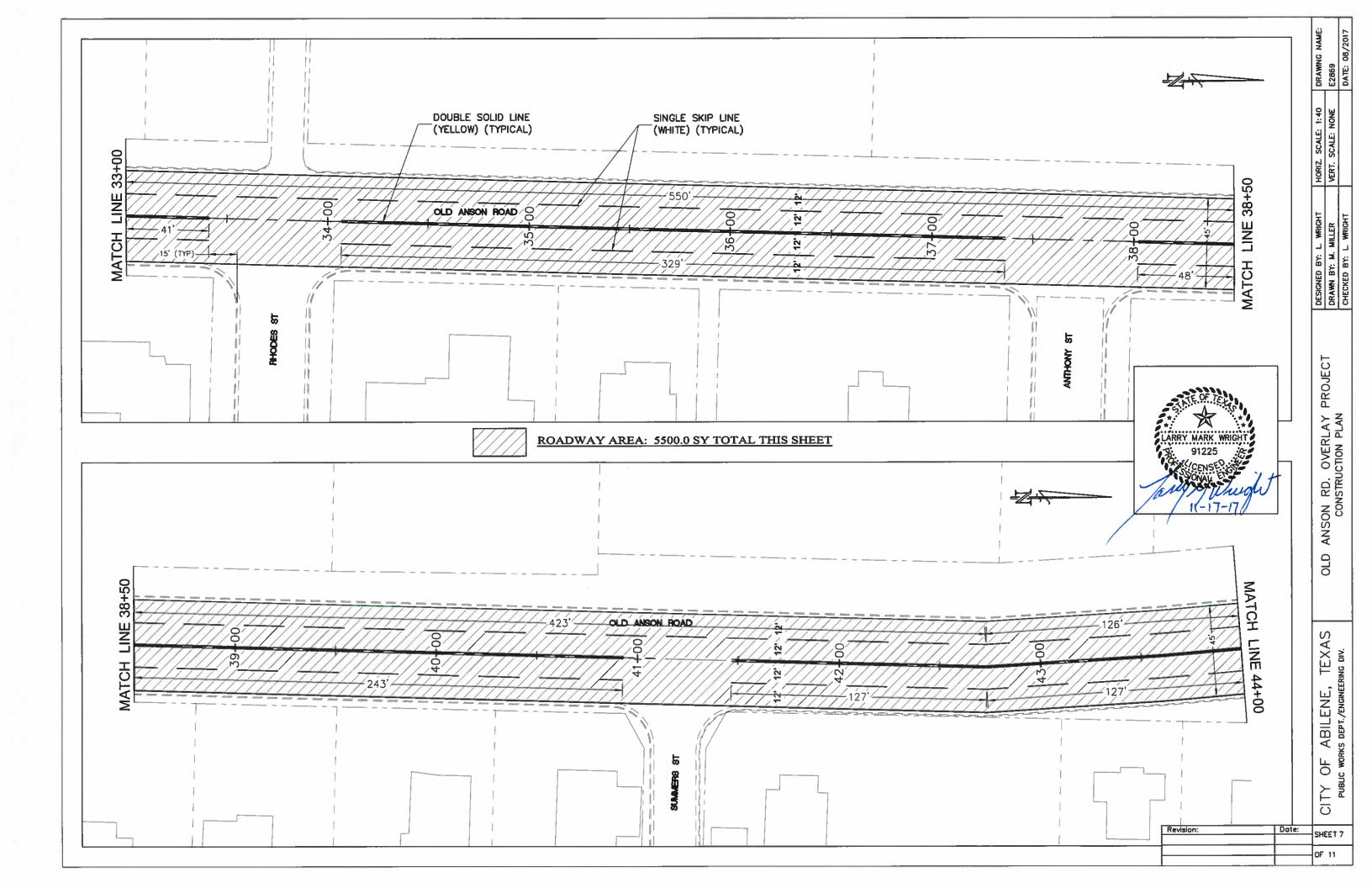
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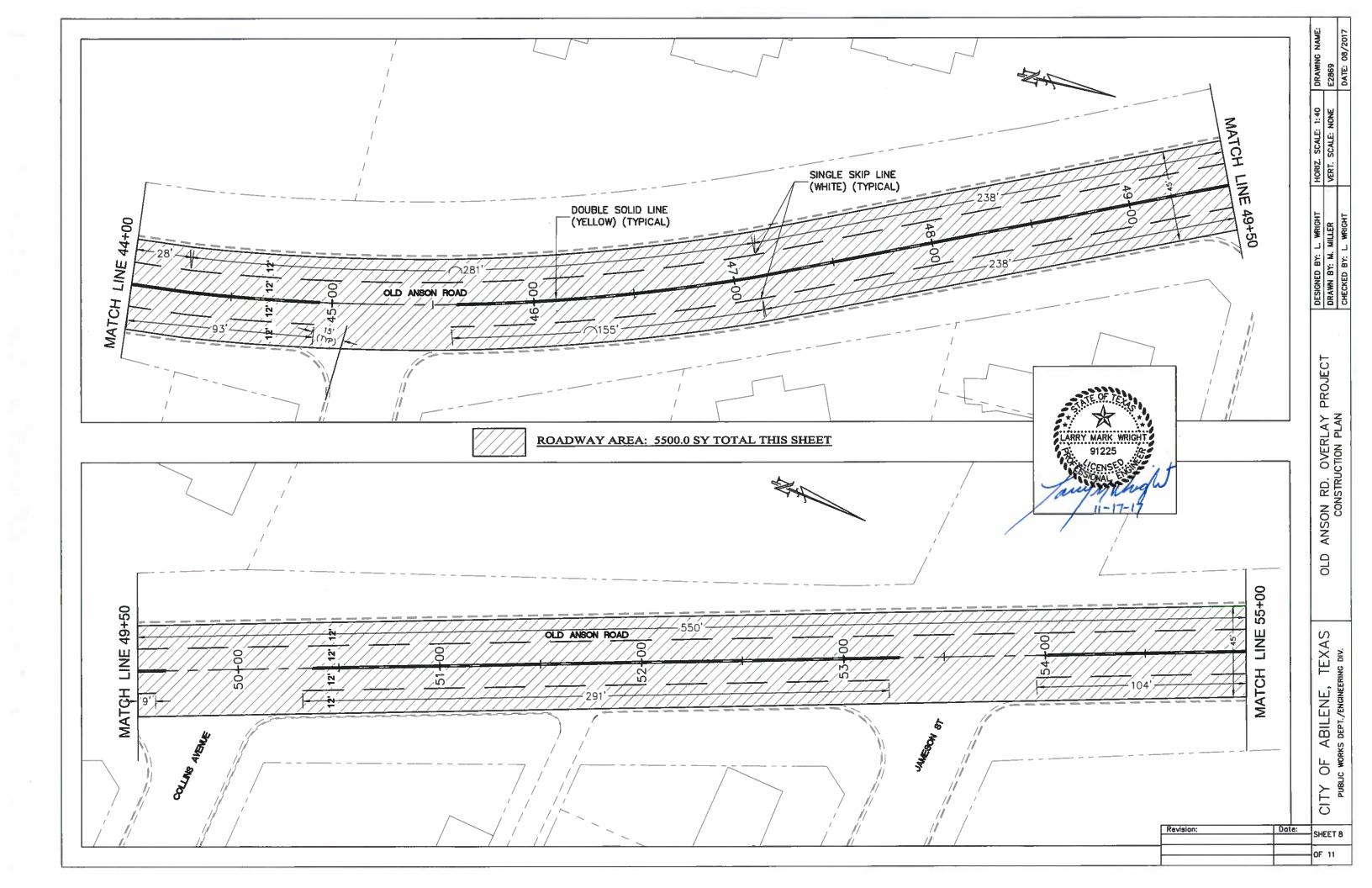
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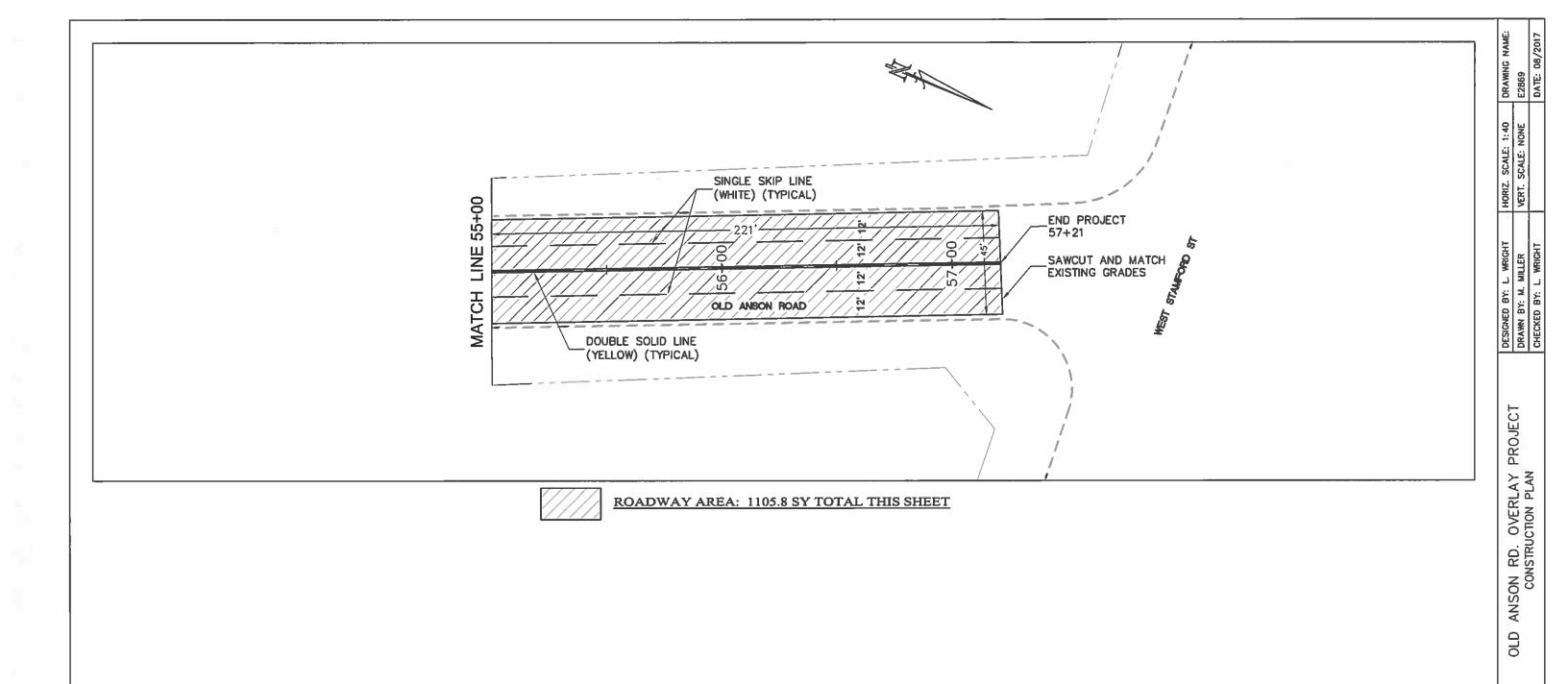






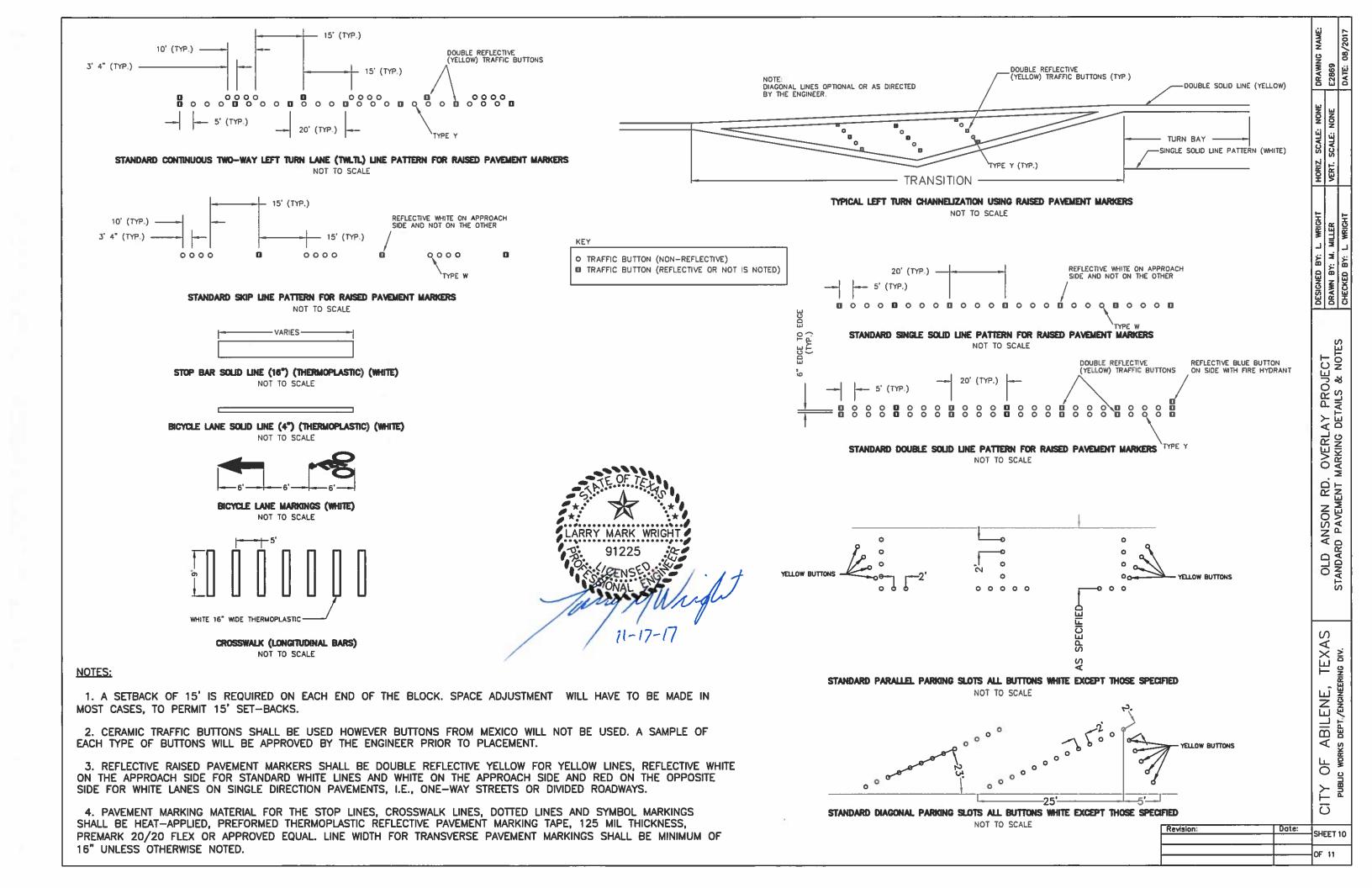






CITY OF ABILENE, TEXAS PUBLIC WORKS DEPT./ENGINEERING DIV. Date: SHEET 9 OF 11

Revision:



TRAFFIC CONTROL PLAN

The Contractor on this project will be required to submit a traffic control plan for each phase of this project. This plan will be in written or picture form and will be in compliance with the latest version of the Texas Manual on Uniform Traffic Control Devices for Streets and Highways (Part VI). Before work begins, the Traffic Control Plan has to be approved in writing by the Engineer. The approved plan will then become a part of the Contract.

Any deviation from the approved Traffic Control Plan will void the acceptance of that plan and a corrected version will be submitted

No work will be performed until the Traffic Control Plan has been presented to the City of Abilene and has been approved in writing by the Engineer.

Any pedestrian routes that are affected by this project will require the same approval process as traffic. Pedestrian traffic that is moved from its normal path will be protected by an approved traffic control plan.

The Traffic Control Plan must have the following elements:

- 1. Carry two way traffic at all times.
- 2. Work on one half of the street at a time.
- 3. When work is performed across intersecting streets, handle traffic with flagmen or close street temporarily.
- 4. All driveways will open the same day they are closed, unless approved otherwise.
- 5. No residences will be denied access.
- 6. It is the Contractors responsibility to inform the residents a week in advance as to their plans. This will be done in writing and presented to the owner.
- 7. At the end of each day, the Contractor will make an inspection of the work area and correct all deficiencies that may exist in the work area as well as construction signs.
- 8. The Contractor will name a Contractor's Responsible Person (C.R.P.) to work with Inspection Services and to see that the Traffic Control Plan is adhered to. This C.R.P. will be designated in writing and presented at the Preconstruction Conference.
- 9. When the job requires flagmen to control the traffic, that flagman will be equipped with a white hard hat and legal reflective vest as well as a legal traffic control paddle to direct traffic. The flagman will be a person that can clearly communicate with the motorists.











CW21-4D

ROAD CLOSED

R11-2





CW6-3

R3-7R



CW20-5DR







CW4-1oR

POSTED SPEED

OF THE ROAD

SPEED * (M.P.H.)

CW4-1cL

** SUGGESTED LENGTHS MAY NEED

TO BE INCREASED DEPENDING ON

FIELD CONDITIONS AND GEOMETRY

BUFFER AREA LENG (FEET)







1 MILE AHEAD LOCAL TRAFFIC

R11-3a

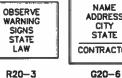
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ROAD WORK

ROAD CLOSED TO THRU TRAFFIC

R11-4





R3-7L

ADDRESS CITY CONTRACTOR G20-6

GENERAL TRAFFIC NOTES:

- 1. Appropriate standard traffic control devices shall be used within the project limits to adequately warn, advise, control and guide traffic ground and/or through all greas of work activity, detours and other potentially hazardous locations as required by the plans.
- 2. The traffic control devices used in the illustrations are examples only. Field conditions shall dictate the most appropriate traffic control devices to be used within a construction project.
- 3. Traffic control devices shall be in place only while work is actually in progress or a definite need exists.
- 4. Flashing warning lights and/or flags may be used to call attention to the early warning signs.
- 5. Devices used in a series for channelization purposes shall be supplemented with steady burn lights or delineators at night as
- 6. All traffic control devices used at night shall be reflectorized or illuminated.
- 60 for speeds of 40 MPH or less 7. Formulas for taper are: L =

Where: L = minimum length of toper S = numerical value of posted speed limit prior to work or 85 percentile speed W = width of offset

L = WxS for speeds of 45 MPH or greater

The taper types and the lengths of taper are as follows: Taper length Taper type

Upstream tapers

L min. Merging Shifting 1/2 L min. Shoulder 1/3 L min. 100' max. Two way traffic 100' min. Downstream tapers

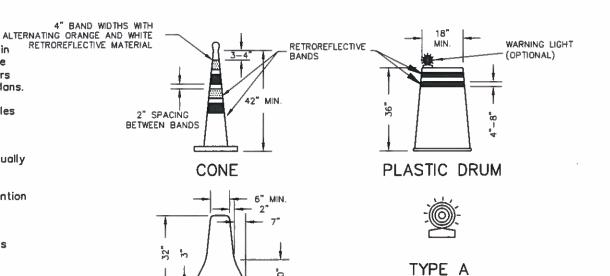
- 8. The maximum spacing between channelizing devices in a taper section shall be approximately equal in feet to the speed limit. The maximum spacing between channelizing devices in a tangent section shall be approximately equal in feet to 2 to 2-1/2 times the speed limit.
- 9. All distances and spacings shown are approximate. Field adjustment may be necessary for some signs and traffic control devices. All adjustments will be approved by the Engineer

2015 BOND ELECTION PUBLIC WORKS 678-6221 VISIT US ON THE WES AT

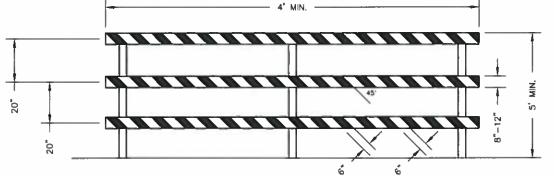
2015 BOND ELECTION SIGN REQUIRED ON ALL BOND PROJECTS

TABLE 2 TABLE 1

TH **	POSTED SPEED OR 85% SPEED (MPH)	X MINIMUM DISTANCE (FEET)
	30 OR LESS 35 40 45	120 160 240 320







TYPE III BARRICADE

CHANNELIZING DEVICES











TEXAS

DETOUR DETOUR **DETOUR SIGNS**

ARRY MARK V



WARNING LIGHT



ANY ST

DETOUR

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WARNING SIGNS